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(54) Title: NOVEL ALKYL TETRALIN ALDEHYDE COMPOUNDS

## (57) Abstract

The present invention relates, *inter alia*, to novel alkyl tetralin aldehyde compounds having fragrant musk-like aroma.

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NOVEL ALKYL TETRALIN ALDEHYDE COMPOUNDSCROSS REFERENCE TO RELATED APPLICATION

This application is a continuation-in-part of copending patent application U.S. Serial No. 080,078, filed 5 June 18, 1993, the disclosures of which are hereby incorporated herein by reference in their entirety.

BACKGROUND OF THE INVENTION

The present invention relates, *inter alia*, to novel alkyl tetralin aldehyde compounds having fragrant 10 musk-like aroma.

Musk fragrances are in great demand for use in various products such as in perfumes, colognes, cosmetics, soaps and others. However, natural musk, which is obtained from the Asian musk deer, is extremely scarce and is quite 15 expensive. Accordingly, fragrance chemists have spent considerable time searching for synthetic products which duplicate or closely simulate this natural musk scent.

As a result of these research efforts, a number of different synthetic musks have been discovered. Among such 20 synthetic compounds is a derivative of 1,1,3,4,4,6-hexamethyl-1,2,3,4-tetrahydronaphthalene (HMT). HMT, for example, is converted to 7-acetyl-1,1,3,4,4,6-hexamethyl-1,2,3,4-tetrahydronaphthalene, to yield a well known musk perfume of the tetralin series. Because of its clean musk 25 fragrance and its ability to retain that fragrance over long periods of time, this compound is of great commercial value as a synthetic musk perfume substitute for the expensive, natural musk perfumes of the macrocyclic ketone series.

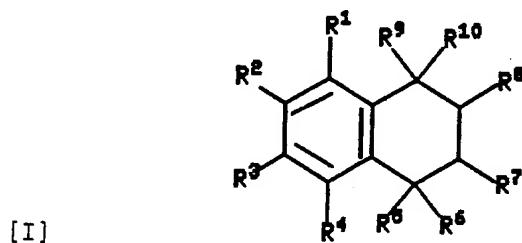
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New and/or better musk aroma compounds are needed to meet the demands of the fragrance industries. The present invention is directed to this, as well as other, important ends.

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### SUMMARY OF THE INVENTION

The present invention provides novel compounds of the formula [I]:



wherein

- 10       $R^1$  is  $-CH_3$ ,  $-CH_2CH_3$ ,  $-OCH_3$  or  $-OH$ ,
- $R^2$  and  $R^3$  are, independently,  $-H$ ,  $-CH_3$ ,  $-CH_2CH_3$ ,  $-OCH_3$ ,  $-OH$  or  $-C(O)H$ ,
- $R^4$  is  $-H$ ,
- $R^5$  is  $-H$ ,  $-CH_3$  or  $-CH_2CH_3$ ,
- 15      or  $R^4$  and  $R^5$ , taken together, are  $-(CH_2)_2-$ ,
- $R^6$  is  $-CH_3$  or  $-CH_2CH_3$ ,
- $R^7$  is  $-H$ ,  $-CH_3$  or  $-CH_2CH_3$ ,
- or  $R^6$  and  $R^7$ , taken together, are  $-(CH_2)_3-$ ,
- $R^8$  and  $R^9$  are, independently,  $-H$ ,  $-CH_3$  or  $-CH_2CH_3$ , and
- 20       $R^{10}$  is  $-CH_3$ ,

provided that

- (i)      one of  $R^2$  and  $R^3$  is  $-C(O)H$ , and one of  $R^2$  and  $R^3$  is other than  $-C(O)H$ ,
- (ii)     no more than one of  $R^5$  and  $R^9$  is  $-H$ ,
- 25      (iii)   no more than one of  $R^5$ ,  $R^6$ ,  $R^7$ ,  $R^8$  and  $R^9$  is  $-CH_2CH_3$ ,
- (iv)     when  $R^1$  is  $-OCH_3$ , then  $R^2$  and  $R^3$  are other than  $-H$  or  $-OH$ ,
- (v)     when  $R^1$  is  $-OH$ , then  $R^2$  and  $R^3$  are other than  $-OH$  or  $-OCH_3$ ,

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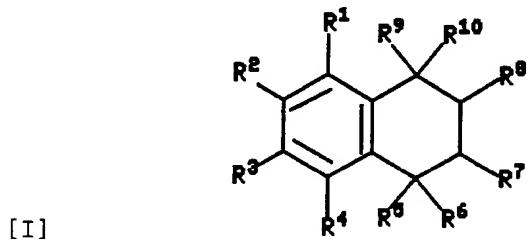
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- (vi) when R<sup>1</sup> is -CH<sub>3</sub> or -CH<sub>2</sub>CH<sub>3</sub>, then at least one of R<sup>7</sup> and R<sup>8</sup> are H,
- (vii) when R<sup>4</sup> and R<sup>5</sup>, taken together, are -(CH<sub>2</sub>)<sub>2</sub>-, then R<sup>1</sup> is -OCH<sub>3</sub> or -OH, R<sup>7</sup> is -H, and R<sup>8</sup> is -H,
- 5 (viii) when R<sup>6</sup> and R<sup>7</sup>, taken together, are -(CH<sub>2</sub>)<sub>3</sub>-, then R<sup>1</sup> is -OCH<sub>3</sub> or -OH, and R<sup>8</sup> is -H,
- (ix) when R<sup>1</sup> is -CH<sub>3</sub> or -CH<sub>2</sub>CH<sub>3</sub>, then one of R<sup>2</sup> and R<sup>3</sup> is -OCH<sub>3</sub> or -OH,  
and
- 10 (x) when R<sup>1</sup> is -OCH<sub>3</sub> or -OH, R<sup>3</sup> is -CH<sub>3</sub> or -CH<sub>2</sub>CH<sub>3</sub>, and both R<sup>7</sup> and R<sup>8</sup> are -H, then at least one of R<sup>5</sup>, R<sup>6</sup> and R<sup>9</sup> is other than -CH<sub>3</sub>.

The foregoing compounds possess an active musk aroma having utility in the fragrance industry. The 15 compounds of the invention may be used alone, or in combination with carriers, additional perfumery materials, and/or other ingredients, to provide various products, such as perfumes, colognes, soaps, and cosmetics.

#### DETAILED DESCRIPTION OF THE INVENTION

20 As noted above, the present invention is directed to novel musk compounds of the formula [I]:



In the above formula [I], the R substituents may be selected as follows: R<sup>1</sup> may be selected from the group consisting of 25 -CH<sub>3</sub>, -CH<sub>2</sub>CH<sub>3</sub>, -OCH<sub>3</sub> and -OH; R<sup>2</sup> may be selected from the group consisting of -H, -CH<sub>3</sub>, -CH<sub>2</sub>CH<sub>3</sub>, -OCH<sub>3</sub>, -OH and -C(O)H; R<sup>3</sup> may be selected from the group consisting of -H, -CH<sub>3</sub>, -CH<sub>2</sub>CH<sub>3</sub>, -OCH<sub>3</sub>, -OH and -C(O)H; R<sup>4</sup> may be -H; R<sup>5</sup> may be selected from the group consisting of -H, -CH<sub>3</sub>, and -CH<sub>2</sub>CH<sub>3</sub>; or 30 R<sup>4</sup> and R<sup>5</sup>, taken together, may be -(CH<sub>2</sub>)<sub>2</sub>-; R<sup>6</sup> may be selected from the group consisting of -CH<sub>3</sub> and -CH<sub>2</sub>CH<sub>3</sub>; R<sup>7</sup> may be

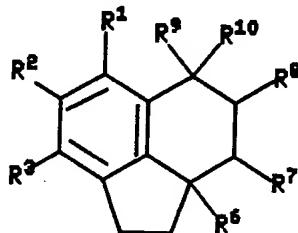
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selected from the group consisting of -H, -CH<sub>3</sub> and -CH<sub>2</sub>CH<sub>3</sub>; or R<sup>6</sup> and R<sup>7</sup>, taken together, may be -(CH<sub>2</sub>)<sub>3</sub>; -R<sup>8</sup> may be selected from the group consisting of -H, -CH<sub>3</sub> and -CH<sub>2</sub>CH<sub>3</sub>; R<sup>9</sup> may be selected from the group consisting of -H, -CH<sub>3</sub> and -CH<sub>2</sub>CH<sub>3</sub>;

5 -CH<sub>2</sub>CH<sub>3</sub>; and R<sup>10</sup> may be -CH<sub>3</sub>.

As the above indicates, the compound of formula [I] may be a bicyclic compound, where R<sup>4</sup> and R<sup>5</sup> are other than -(CH<sub>2</sub>)<sub>2</sub>-, and R<sup>6</sup> and R<sup>7</sup> are other than -(CH<sub>2</sub>)<sub>3</sub>-. The compound of formula [I] may alternatively be a tricyclic

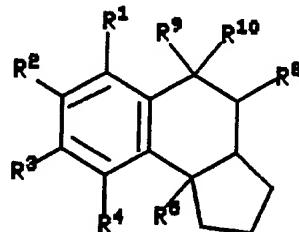
10 compound by virtue of R<sup>4</sup> and R<sup>5</sup> being taken together as -(CH<sub>2</sub>)<sub>2</sub>-, such as a compound of the formula [II]:



[II]

Similarly, the compound of formula [I] may alternatively be a tricyclic compound by virtue of R<sup>6</sup> and R<sup>7</sup> being taken

15 together as -(CH<sub>2</sub>)<sub>3</sub>-, such as a compound of the formula [III]:



[III]

The foregoing selection of R substituents should, however, be made with the following qualifications in mind:

20 that one of R<sup>2</sup> and R<sup>3</sup> is -C(O)H, and the other of R<sup>2</sup> and R<sup>3</sup> is other than -C(O)H; that no more than one of R<sup>5</sup> or R<sup>9</sup> is -H; that no more than one of R<sup>5</sup>, R<sup>6</sup>, R<sup>7</sup>, R<sup>8</sup> or R<sup>9</sup> is -CH<sub>2</sub>CH<sub>3</sub>; that

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when  $R^1$  is  $-OCH_3$ , then  $R^2$  and  $R^3$  are both other than  $-H$  or  $-OH$ ; that when  $R^1$  is  $-OH$ , then  $R^2$  and  $R^3$  are both other than  $-OH$  or  $-OCH_3$ ; that when  $R^1$  is  $-CH_3$  or  $-CH_2CH_3$ , then one or both of  $R^7$  and  $R^8$  are  $H$ ; that when  $R^4$  and  $R^5$ , taken together, are  $-(CH_2)_2-$  (that is, a tricyclic compound, where the third ring structure is at the  $R^4$  and  $R^5$  position), then  $R^1$  is  $-OCH_3$  or  $-OH$ ,  $R^7$  is  $-H$ , and  $R^8$  is  $-H$ ; that when  $R^6$  and  $R^7$ , taken together, are  $-(CH_2)_3-$  (that is, a tricyclic compound, where the third ring structure is at the  $R^6$  and  $R^7$  position), then  $R^1$  is  $-OCH_3$  or  $-OH$ , and  $R^8$  is  $-H$ ; and that when all of the following is true --  $R^1$  is  $-OCH_3$  or  $-OH$ ,  $R^3$  is  $-CH_3$  or  $-CH_2CH_3$ , and both  $R^7$  and  $R^8$  are  $-H$  -- then at least one of  $R^5$ ,  $R^6$  and  $R^9$  is other than  $-CH_3$ .

For reasons of their fragrance characteristics, synthesis advantages, formulation benefits, and/or other values, the following are preferable classes of compounds within the scope of Formula [I]:

- Compounds of Formula [I] wherein  $R^1$  is  $-CH_3$ ,  $-OH$  or  $-OCH_3$ ;
- Compounds of Formula [I] wherein  $R^2$  is  $-C(O)H$ ;
- Compounds of Formula [I] wherein  $R^3$  is  $-CH_3$  or  $-CH_2CH_3$ ;
- Compounds of Formula [I] wherein  $R^1$  is  $-OH$  or  $-OCH_3$ ,  $R^2$  is  $-C(O)H$ ,  $R^3$  is  $-CH_3$  or  $-CH_2CH_3$ ,  $R^4$  is  $-H$ ,  $R^5$  is  $-CH_3$ ,  $R^6$  is  $-CH_3$ ,  $R^7$  is  $-H$  or  $CH_3$ ,  $R^8$  is  $-H$  or  $-CH_3$ ,  $R^9$  is  $-CH_3$ , and  $R^{10}$  is  $-CH_3$ ;
- Compounds of Formula [I] wherein  $R^1$  is  $-OH$  or  $-OCH_3$ ,  $R^2$  is  $-C(O)H$ ,  $R^3$  is  $-CH_3$ ,  $R^4$  and  $R^5$ , taken together, are  $-(CH_2)_2-$ ,  $R^6$  is  $-CH_3$ ,  $R^7$  is  $-H$ ,  $R^8$  is  $-H$ ,  $R^9$  is  $-CH_3$ , and  $R^{10}$  is  $-CH_3$ ; and
- Compounds of Formula [I] wherein  $R^1$  is  $-OH$  or  $-OCH_3$ ,  $R^2$  is  $-C(O)H$ ,  $R^3$  is  $-CH_3$ ,  $R^4$  is  $-H$ ,  $R^5$  is  $-CH_3$ ,  $R^6$  and  $R^7$ , taken together, are  $-(CH_2)_3-$ ,  $R^8$  is  $-H$ ,  $R^9$  is  $-CH_3$ , and  $R^{10}$  is  $-CH_3$ .

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Specific compounds of Formula [I] which are most preferred, for reasons of fragrance characteristics, synthesis advantages, formulation benefits, and/or other values are as follows:

5           ● The compound of Formula [I] wherein R<sup>1</sup> is -OCH<sub>3</sub>, R<sup>2</sup> is -C(O)H, R<sup>3</sup> is -CH<sub>3</sub>, R<sup>4</sup> is -H, R<sup>5</sup> is -CH<sub>3</sub>, R<sup>6</sup> is CH<sub>3</sub>, R<sup>7</sup> is -CH<sub>3</sub>, R<sup>8</sup> is -H, R<sup>9</sup> is -CH<sub>3</sub>, and R<sup>10</sup> is -CH<sub>3</sub>;

10          ● The compound of Formula [I] wherein R<sup>1</sup> is -OCH<sub>3</sub>, R<sup>2</sup> is -C(O)H, R<sup>3</sup> is -CH<sub>2</sub>CH<sub>3</sub>, R<sup>4</sup> is -H, R<sup>5</sup> is CH<sub>3</sub>, R<sup>6</sup> is CH<sub>3</sub>, R<sup>7</sup> is -CH<sub>3</sub>, R<sup>8</sup> is -H, R<sup>9</sup> is -CH<sub>3</sub>, and R<sup>10</sup> is -CH<sub>3</sub>;

15          ● The compound of Formula [I] wherein R<sup>1</sup> is -OH, R<sup>2</sup> is -C(O)H, R<sup>3</sup> is -CH<sub>3</sub>, R<sup>4</sup> is -H, R<sup>5</sup> is -CH<sub>3</sub>, R<sup>6</sup> is -CH<sub>3</sub>, R<sup>7</sup> is -CH<sub>3</sub>, R<sup>8</sup> is -H, R<sup>9</sup> is -CH<sub>3</sub>, and R<sup>10</sup> is -CH<sub>3</sub>;

20          ● The compound of Formula [I] wherein R<sup>1</sup> is -OH, R<sup>2</sup> is -C(O)H, R<sup>3</sup> is -CH<sub>2</sub>CH<sub>3</sub>, R<sup>4</sup> is -H, R<sup>5</sup> is CH<sub>3</sub>, R<sup>6</sup> is CH<sub>3</sub>, and R<sup>7</sup> is -CH<sub>3</sub>, R<sup>8</sup> is -H, R<sup>9</sup> is -CH<sub>3</sub>, and R<sup>10</sup> is -CH<sub>3</sub>;

25          ● The compound of Formula [I] wherein R<sup>1</sup> is -OH, R<sup>2</sup> is -C(O)H, R<sup>3</sup> is -CH<sub>3</sub>, R<sup>4</sup> and R<sup>5</sup>, taken together, are -(CH<sub>2</sub>)<sub>2</sub>-, R<sup>6</sup> is -CH<sub>3</sub>, R<sup>7</sup> is -H, R<sup>8</sup> is -H, R<sup>9</sup> is -CH<sub>3</sub>, and R<sup>10</sup> is -CH<sub>3</sub>;

30          ● The compound of Formula [I] wherein R<sup>1</sup> is -OCH<sub>3</sub>, R<sup>2</sup> is -C(O)H, R<sup>3</sup> is -CH<sub>3</sub>, R<sup>4</sup> and R<sup>5</sup>, taken together, are -(CH<sub>2</sub>)<sub>2</sub>-, R<sup>6</sup> is -CH<sub>3</sub>, R<sup>7</sup> is -H, R<sup>8</sup> is -H, R<sup>9</sup> is -CH<sub>3</sub>, and R<sup>10</sup> is -CH<sub>3</sub>;

35          ● The compound of Formula [I] wherein R<sup>1</sup> is -OCH<sub>3</sub>, R<sup>2</sup> is -C(O)H, R<sup>3</sup> is -CH<sub>3</sub>, R<sup>4</sup> is -H, R<sup>5</sup> is -CH<sub>3</sub>, R<sup>6</sup> and R<sup>7</sup>, taken together, are -(CH<sub>2</sub>)<sub>3</sub>-, R<sup>8</sup> is -H, R<sup>9</sup> is -CH<sub>3</sub>, and R<sup>10</sup> is -CH<sub>3</sub>;

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- The compound of Formula [I] wherein R<sup>1</sup> is -OCH<sub>3</sub>, R<sup>2</sup> is -C(O)H, R<sup>3</sup> is -CH<sub>3</sub>, R<sup>4</sup> is -H, R<sup>5</sup> is -CH<sub>3</sub>, R<sup>6</sup> is -CH<sub>3</sub>, R<sup>7</sup> is -H, R<sup>8</sup> is -CH<sub>3</sub>, R<sup>9</sup> is -CH<sub>3</sub>, and R<sup>10</sup> is -CH<sub>3</sub>;
- 5 ● The compound of Formula [I] wherein R<sup>1</sup> is -OCH<sub>3</sub>, R<sup>2</sup> is -C(O)H, R<sup>3</sup> is -OCH<sub>3</sub>, R<sup>4</sup> is -H, R<sup>5</sup> is -CH<sub>3</sub>, R<sup>6</sup> is -CH<sub>3</sub>, R<sup>7</sup> is -H, R<sup>8</sup> is -H, R<sup>9</sup> is -CH<sub>3</sub>, and R<sup>10</sup> is -CH<sub>3</sub>;
- 10 ● The compound of Formula [I] wherein R<sup>1</sup> is -OCH<sub>3</sub>, R<sup>2</sup> is -C(O)H, R<sup>3</sup> is -OCH<sub>3</sub>, R<sup>4</sup> is -H, R<sup>5</sup> is -CH<sub>3</sub>, R<sup>6</sup> is -CH<sub>3</sub>, R<sup>7</sup> is -CH<sub>3</sub>, R<sup>8</sup> is -H, R<sup>9</sup> is -CH<sub>3</sub> and R<sup>10</sup> is -CH<sub>3</sub>; and
- 15 ● The compound of Formula [I] wherein R<sup>1</sup> is -OCH<sub>3</sub>, R<sup>2</sup> is -H, R<sup>3</sup> is -C(O)H, R<sup>4</sup> is -H, R<sup>5</sup> is -CH<sub>3</sub>, R<sup>6</sup> is -CH<sub>3</sub>, R<sup>7</sup> is -CH<sub>3</sub>, R<sup>8</sup> is -H, R<sup>9</sup> is -CH<sub>3</sub> and R<sup>10</sup> is -CH<sub>3</sub>.

Of the foregoing compounds, the most preferred compounds are as follows:

- The compound of Formula [I] wherein R<sup>1</sup> is -OCH<sub>3</sub>, R<sup>2</sup> is -C(O)H, R<sup>3</sup> is -CH<sub>3</sub>, R<sup>4</sup> is -H, R<sup>5</sup> is -CH<sub>3</sub>, R<sup>6</sup> is -CH<sub>3</sub>, R<sup>7</sup> is -CH<sub>3</sub>, R<sup>8</sup> is -H, R<sup>9</sup> is -CH<sub>3</sub>, and R<sup>10</sup> is -CH<sub>3</sub>;
- 20 ● The compound of Formula [I] wherein R<sup>1</sup> is -OCH<sub>3</sub>, R<sup>2</sup> is -C(O)H, R<sup>3</sup> is -CH<sub>3</sub>, R<sup>4</sup> is -H, R<sup>5</sup> is -CH<sub>3</sub>, R<sup>6</sup> is -CH<sub>3</sub>, R<sup>7</sup> is -H, R<sup>8</sup> is -CH<sub>3</sub>, R<sup>9</sup> is -CH<sub>3</sub>, and R<sup>10</sup> is -CH<sub>3</sub>;
- 25 ● The compound of Formula [I] wherein R<sup>1</sup> is -OCH<sub>3</sub>, R<sup>2</sup> is -C(O)H, R<sup>3</sup> is -OCH<sub>3</sub>, R<sup>4</sup> is -H, R<sup>5</sup> is -CH<sub>3</sub>, R<sup>6</sup> is -CH<sub>3</sub>, R<sup>7</sup> is -H, R<sup>8</sup> is -H, R<sup>9</sup> is -CH<sub>3</sub>, and R<sup>10</sup> is -CH<sub>3</sub>;
- The compound of Formula [I] wherein R<sup>1</sup> is -OCH<sub>3</sub>, R<sup>2</sup> is -C(O)H, R<sup>3</sup> is -OCH<sub>3</sub>, R<sup>4</sup> is -H, R<sup>5</sup> is -CH<sub>3</sub>, R<sup>6</sup> is -CH<sub>3</sub>, R<sup>7</sup> is -H, R<sup>8</sup> is -H, R<sup>9</sup> is -CH<sub>3</sub>, and R<sup>10</sup> is -CH<sub>3</sub>;
- 30 ● The compound of Formula [I] wherein R<sup>1</sup> is -OCH<sub>3</sub>, R<sup>2</sup> is -C(O)H, R<sup>3</sup> is -OCH<sub>3</sub>, R<sup>4</sup> is -H, R<sup>5</sup> is -CH<sub>3</sub>, R<sup>6</sup> is -CH<sub>3</sub>, R<sup>7</sup> is -CH<sub>3</sub>, R<sup>8</sup> is -H, R<sup>9</sup> is -CH<sub>3</sub> and R<sup>10</sup> is -CH<sub>3</sub>; and

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The compound of Formula [I] wherein R<sup>1</sup> is -OCH<sub>3</sub>, R<sup>2</sup> is -H, R<sup>3</sup> is -C(O)H, R<sup>4</sup> is -H, R<sup>5</sup> is -CH<sub>3</sub>, R<sup>6</sup> is -CH<sub>3</sub>, R<sup>7</sup> is -CH<sub>3</sub>, R<sup>8</sup> is -H, R<sup>9</sup> is -CH<sub>3</sub> and R<sup>10</sup> is -CH<sub>3</sub>.

5       The novel alkyl tetralin aldehyde compounds of the present invention may be prepared in various fashions. In the preferable protocol, alkyl tetralins are first prepared. Then the alkyl tetralins are formylated (that is, the radical -C(O)H is added to the benzene ring of the tetralin structure, to form an alkyl tetralin aldehyde), or oxidized (that is, a -CH<sub>3</sub> substituent on the benzene ring of the tetralin structure is oxidized to -C(O)H, to form an alkyl tetralin aldehyde). Examples 1-4 illustrate specific methodology which may be utilized for the preparation of 10 compounds of the present invention.

15

In general, alkyl tetralin compounds or alkyl tetralin aldehyde compounds may be prepared by numerous synthetic routes which will be readily apparent to those skilled in the art, once armed with the present disclosure.

20      Examples of suitable methodology which may be employed or modified in accordance with the present disclosures to prepare compounds of the present invention include Frank, U.S. Patent Nos. 4,877,911, 4,877,914, 4,877,910, 4,877,916, 4,877,915, 4,877,913, 4,877,912, and 5,087,785, Carpenter,

25      U.S. Patent No. 2,897,237, Carpenter, U.S. Patent No. 2,800,511, Fehr et al., U.S. Patent No. 5,162,588, Willis et al., U.S. Patent No. 4,605,778, Traas et al., U.S. Patent No. 4,352,748, Cobb et al., U.S. Patent No. 4,551,573, Wood, U.S. Patent No. 3,246,044, Wood et al., U.S. Patent No.

30      3,856,875, Sato et al., U.S. Patent No. 4,284,818, Kahn, U.S. Patent No. 3,379,785, Suzukamo et al., U.S. Patent No. 4,767,882, Gonzenbach, U.S. Patent No. 4,908,349, European Patent Application Publication No. 0 393 742, European Patent Application Publication No. 0 301 375, Japanese Patent No. SHO 57-40420, Fehr et al., *Helv. Chim. Acta*, Vol. 72, pp. 1537-1553 (1989), and Bedoukian, Paul Z., Perfumery and Flavoring Synthetics, 3rd ed., pp. 334-336, Allured

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Publishing Corporation, Wheaton, IL (1986), the disclosures of each of which are hereby incorporated herein by reference, in their entirety.

In accordance with Frank, U.S. Patent No.

5 4,877,910, for example, various polyalkyl tetrahydronaphthalene compounds may be prepared by carrying out a cyclialkylation reaction between an olefinic compound and a substituted benzene compound in the presence of a hydride abstracting reagent, an alkyl halide or hydrogen  
10 halide, a Lewis acid, and, optionally, a phase transfer agent. Suitable olefinic compounds include 2,3-dimethyl-1-butene and 2,3-dimethyl-2-butene. Suitable substituted benzene compounds include isopropyl toluene (*para*-cymene), 1-ethyl-4-isopropylbenzene, 1-n-propyl-4-isopropyl-benzene,  
15 and 1-tertiary-butyl-4-isopropyl-benzene. A suitable hydride abstracting reagent is 2,4,4-trimethyl-2-pentene (diisobutylene-2). Suitable alkyl halides include tertiary-butyl chloride, tertiary-amyl chloride, 2-methyl-2-chloropentane, 3-methyl-3-chloropentane and 1,8-dichloro-  
20 para-menthane. Suitable Lewis acids include aluminum chloride, aluminum bromide, aluminum iodide, monofluorodichloroaluminum, monobromodichloroaluminum and monoiododichloroaluminum. Suitable phase transfer agents include methyltrioctylammonium chloride (referred to herein  
25 as "MTOAc"), and a mixture of methyltrioctyl-ammonium chloride and methyltridecylammonium chloride (the mixture being marketed under the tradename Adogen-464™, by Sherex Co., located in Dublin, Ohio).

In general, the molar proportions of the reagents  
30 employed in the foregoing process can be varied over a relatively wide range. However, where phase transfer agents are employed in the process, it is important, for the best results, to maintain a ratio of less than one mole of phase transfer agent per mole of Lewis acid. Preferably, the  
35 molar ratio is about 0.8 to 1.0, more preferably 0.5 to 1.0, phase transfer agent to Lewis acid. In addition, it is also preferable to use a mixture of olefinic compound, hydride

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abstracting reagent, alkyl halide and hydrogen halide, wherein these components are present in a molar range of about 1.0 to about 5.0 moles of olefin per mole of combined halides plus reagent. More preferably, the olefin, and the  
5 combined halides plus reagent are present in nearly equimolar amounts, that is, about 1.0 mole of olefin per mole of combined halides plus reagent. Preferably, the substituted benzene compound is present in a range of about 0.5 to about 10 moles per mole of olefin, more preferably in  
10 a range of about 0.5 to about 5.0 per mole of olefin. In a most preferred embodiment, each of the benzene compound, olefin, and the combination of alkyl halide, hydrogen halide plus hydride abstracting reagent, are present nearly in equimolar amounts, that is, about 1.0 mole of benzene  
15 compound, to about 1.0 mole of olefin, to about 1.0 mole of combined halides plus hydride abstracting reagent. The amount of Lewis acid utilized is preferably in the range of about 2% to about 10% by weight of the Lewis acid based on the combined weight of the substituted benzene, olefin,  
20 alkyl halide, hydrogen halide plus hydride abstracting reagent.

The foregoing reaction is generally carried out using a solvent, although, if desired, substituted benzene, one of the starting materials, may be employed in large  
25 excess in lieu of an additional solvent. Suitable solvents include methylene chloride, chloroform, carbon tetrachloride, ethylene chloride, ethylidene chloride, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,1,2,2-tetrachloroethane, 1,2-dichloroethylene, trichloro-ethylene,  
30 tetrachloroethylene, 1,2,3-trichloropropane, amyl chloride, ethylene bromide, monochlorobenzene, ortho-dichlorobenzene, bromobenzene, fluorobenzene, n-hexane, n-heptane, n-octane, benzene, toluene, ethylbenzene and xylene. Preferred for reasons of yield, safety and/or process engineering are the  
35 unhalogenated aliphatic and unhalogenated alicyclic hydrocarbons.

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The alkylation reaction described above can be carried out in any suitable vessel which provides efficient contacting between the Lewis acid and the other reactants. For simplicity, a stirred batch reactor can be employed.

5 Moreover, the reaction vessel used should be resistant to the possibly corrosive nature of the catalyst. Glass-lined vessels would be suitable for this purpose. Additional vessel materials will be apparent to those skilled in the art.

10 The reagents of the present process may be added in any order, although where the process is carried out with a phase transfer agent, the preferred mode is to add the solvent, the Lewis acid and the phase transfer agent first, allow sufficient time for the Lewis acid to become 15 substantially dissolved in the solvent, and then add the remaining reagents. Generally, 15 to 30 minutes are needed for the Lewis acid to become substantially dissolved in the solvent.

Ideally, the reaction is carried out at 20 temperatures ranging from about -30°C to about 50°C, preferably at temperatures ranging from about -10°C to about 40°C, and most preferably at temperatures ranging from about 0°C to about 30°C.

The pressure at which the reaction is carried out 25 is not critical. If the reaction is carried out in a sealed vessel, autogenous pressure is acceptable, although higher or lower pressures, if desired, may be employed. The reaction can also be carried out at atmospheric pressure in an open reaction vessel, in which case the vessel is 30 preferably equipped with a moisture trap to prevent significant exposure of Lewis acid to moisture. The reaction can take place in an oxygen atmosphere, or an inert atmosphere as in the presence of a gas such as nitrogen, argon and the like, the type of atmosphere also not being 35 critical.

Reaction time is generally rather short and is often dictated by the kind of equipment employed.

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Sufficient time must be provided, however, for thorough contacting of the substituted benzene compound, the olefinic compound, the Lewis acid and the phase transfer agent. Generally the reaction proceeds to completion in about 1 to 5 about 7 hours.

Product can be recovered by first quenching the reaction mixture in cold water or on crushed ice, preferably on ice, and then processing the mixture in the usual manner for Friedel-Crafts reactions to extract the desired alkyl-10 substituted tetrahydronaphthalene compounds. Suitable extraction protocol is described, for example, in Friedel-Crafts Reactions. Typically, following quenching and the resultant phase separation, the organic layer is washed an additional time with water to aid in removal of the Lewis 15 acid. One or more additional washings can be carried out with dilute alkali solution to further aid Lewis acid removal. Pure product can then be recovered by subjecting the washed reaction mixture to reduced pressure fractional distillation.

20 Exemplary tetrahydronaphthalene compounds which may be prepared by the foregoing process include 1,1,3,4,4,6-hexamethyl-1,2,3,4-tetrahydronaphthalene (HMT), 6-ethyl-1,1,3,4,4-pentamethyl-1,2,3,4-tetrahydronaphthalene, 6-tertiary-butyl-1,1,3,4,4-pentamethyl-1,2,3,4-tetra-25 hydronaphthalene, and 6-n-propyl-1,1,3,4,4-pentamethyl-1,2,3,4-tetrahydro-naphthalene.

The disclosures of Frank, U.S. Patent No. 4,877,910, are hereby incorporated herein by reference in their entirety.

30 Alkyl tetralin compounds may then be formylated or oxidized to form alkyl tetralin aldehydes using conventional formylation or oxidation technology, as will be readily apparent to one skilled in the art once armed with the present disclosure.

35 Specifically, to prepare alkyl tetralin aldehydes from alkyl tetralins using formylation techniques, the alkyl tetralins are preferably reacted with  $\alpha,\alpha$ -dichloromethyl

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methyl ether, in a solvent such as an organic solvent (preferably a halogenated organic solvent such as, for example, anhydrous methylene chloride), in the presence of a Lewis acid (preferably titanium tetrachloride). Other 5 suitable halogenated solvents and Lewis acids are described above, and will be readily apparent to those skilled in the art, once armed with the present disclosures. In general, formylation methods are well known in the art, and are described in many of the patents and publications discussed 10 above for the preparation of alkyl tetralin compounds, as well as, for example, in Organic Syntheses, Collective Vol. 5, pp. 49-50, by A. Rieche, H. Gross, and E. Hoft, edited by H.E. Baumgarten, John Wiley and Sons (New York, NY 1973), Rahm, Synthetic Communications, Vol. 12, No. 6, pp. 485-487 15 15 (1982), Effenberger, Angewandte Chemie International Edition (English), Vol. 19, No. 3, pp. 151-230 (1980), Olah et al., Chemical Reviews, Vol. 87, No. 4, pp. 671-686 (1987), and Hauser et al., Synthesis, pp. 723-724 (August 1987), the 20 disclosures of each of which are incorporated herein by reference, in their entirety.

Alternatively, to prepare alkyl tetralin aldehydes from alkyl tetralins using oxidation techniques, the alkyl tetralins are preferably reacted with ceric ammonium nitrate ( $\text{Ce}(\text{NO}_3)_4 \bullet \text{NH}_4\text{NO}_3$ ), a strong oxidant for organic compounds, in 25 the presence of acetic acid. In general, these and other suitable oxidation methods are well known in the art, and are described, for example, in Syper, Tetrahedron Letters, No. 37, pp. 4493-4498 (1966), Laing et al., J. Chem. Soc. (C), pp. 2915-2918 (1968), Imamoto et al., Chemistry Letters, pp. 1445-1446 (1990), Kreh et al., Tetrahedron Letters, Vol. 28, No. 10, pp. 1067-1068 (1987), Hauser et 30 al., Communications, pp. 72-73 (August 1987), and Syper, Tetrahedron Letters, No. 42, pp. 4193-4198 (1967).

Further purification of the alkyl tetralin 35 aldehyde compounds of Formula [I] may be carried out, if desired, using, for example, standard fractional distillation techniques, as well as other conventional

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extraction, distillation, crystallization and chromatography techniques, and the like.

Exemplary novel alkyl tetralin aldehyde compounds are shown in Table I below.

Compound	R <sup>1</sup>	R <sup>2</sup>	R <sup>3</sup>	R <sup>4</sup>	R <sup>5</sup>	R <sup>6</sup>	R <sup>7</sup>	R <sup>8</sup>	R <sup>9</sup>	R <sup>10</sup>
1	-CH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
2	-CH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
3	-CH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
4	-CH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
5	-CH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
6	-CH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
7	-CH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
8	-CH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
9	-CH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
10	-CH <sub>2</sub> CH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-H	-CH <sub>3</sub>
11	-CH <sub>2</sub> CH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-H	-H	-H	-CH <sub>3</sub>
12	-CH <sub>2</sub> CH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
13	-CH <sub>2</sub> CH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
14	-CH <sub>2</sub> CH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
15	-CH <sub>2</sub> CH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
16	-CH <sub>2</sub> CH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
17	-CH <sub>2</sub> CH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-H	-CH <sub>3</sub>
18	-CH <sub>2</sub> CH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-H	-CH <sub>3</sub>

Compound	R <sup>1</sup>	R <sup>2</sup>	R <sup>3</sup>	R <sup>4</sup>	R <sup>5</sup>	R <sup>6</sup>	R <sup>7</sup>	R <sup>8</sup>	R <sup>9</sup>
19	-CH <sub>3</sub>	-OH	-C(O)H	-H	-H	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
20	-CH <sub>3</sub>	-OH	-C(O)H	-H	-H	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
21	-CH <sub>3</sub>	-OH	-C(O)H	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>
22	-CH <sub>3</sub>	-OH	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
23	-CH <sub>3</sub>	-OH	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
24	-CH <sub>3</sub>	-OH	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>
25	-CH <sub>3</sub>	-OH	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
26	-CH <sub>3</sub>	-OH	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
27	-CH <sub>3</sub>	-OH	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
28	-CH <sub>2</sub> CH <sub>3</sub>	-OH	-C(O)H	-H	-H	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
29	-CH <sub>2</sub> CH <sub>3</sub>	-OH	-C(O)H	-H	-H	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
30	-CH <sub>2</sub> CH <sub>3</sub>	-OH	-C(O)H	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
31	-CH <sub>2</sub> CH <sub>3</sub>	-OH	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
32	-CH <sub>2</sub> CH <sub>3</sub>	-OH	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>
33	-CH <sub>2</sub> CH <sub>3</sub>	-OH	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
34	-CH <sub>2</sub> CH <sub>3</sub>	-OH	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
35	-CH <sub>2</sub> CH <sub>3</sub>	-OH	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
36	-CH <sub>2</sub> CH <sub>3</sub>	-OH	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>

Compound	R <sup>1</sup>	R <sup>2</sup>	R <sup>3</sup>	R <sup>4</sup>	R <sup>5</sup>	R <sup>6</sup>	R <sup>7</sup>	R <sup>8</sup>	R <sup>9</sup>
37	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
38	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>
39	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
40	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>
41	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
42	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
43	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
44	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>
45	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
46	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>
47	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
48	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
49	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
50	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
51	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
52	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
53	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
54	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>

Compound	R <sup>1</sup>	R <sup>2</sup>	R <sup>3</sup>	R <sup>4</sup>	R <sup>5</sup>	R <sup>6</sup>	R <sup>7</sup>	R <sup>8</sup>	R <sup>9</sup>	R <sup>10</sup>
55	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
56	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
57	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
58	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
59	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
60	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
61	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
62	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
63	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
64	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
65	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
66	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
67	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
68	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
69	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
70	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
71	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
72	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>

Compound	R <sup>1</sup>	R <sup>2</sup>	R <sup>3</sup>	R <sup>4</sup>	R <sup>5</sup>	R <sup>6</sup>	R <sup>7</sup>	R <sup>8</sup>	R <sup>9</sup>	R <sup>10</sup>
73	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-H	-CH <sub>3</sub>
74	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-H	-CH <sub>3</sub>
75	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
76	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
77	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
78	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>
79	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
80	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
81	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
82	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>
83	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
84	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>
85	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-H	-CH <sub>3</sub>
86	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
87	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
88	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
89	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
90	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>

Compound	R <sup>1</sup>	R <sup>2</sup>	R <sup>3</sup>	R <sup>4</sup>	R <sup>5</sup>	R <sup>6</sup>	R <sup>7</sup>	R <sup>8</sup>	R <sup>9</sup>	R <sup>10</sup>
91	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
92	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
93	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
94	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
95	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
96	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
97	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
98	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
99	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
100	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
101	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
102	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
103	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
104	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
105	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
106	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
107	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
108	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>

Compound	R <sup>1</sup>	R <sup>2</sup>	R <sup>3</sup>	R <sup>4</sup>	R <sup>5</sup>	R <sup>6</sup>	R <sup>7</sup>	R <sup>8</sup>	R <sup>9</sup>	R <sup>10</sup>
109	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
110	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
111	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>
112	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
113	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
114	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>
115	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>
116	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>
117	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
118	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>
119	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>
120	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
121	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
122	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>
123	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>
124	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>
125	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>
126	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>

Compound	R <sup>1</sup>	R <sup>2</sup>	R <sup>3</sup>	R <sup>4</sup>	R <sup>5</sup>	R <sup>6</sup>	R <sup>7</sup>	R <sup>8</sup>	R <sup>9</sup>	R <sup>10</sup>
127	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
128	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
129	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
130	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
131	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
132	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
133	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
134	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
135	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
136	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
137	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
138	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
139	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
140	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
141	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
142	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
143	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
144	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>

Compound	R <sup>1</sup>	R <sup>2</sup>	R <sup>3</sup>	R <sup>4</sup>	R <sup>5</sup>	R <sup>6</sup>	R <sup>7</sup>	R <sup>8</sup>	R <sup>9</sup>
145	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
146	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
147	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
148	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
149	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
150	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
151	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
152	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>
153	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
154	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
155	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
156	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>
157	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
158	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
159	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
160	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
161	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
162	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>

Compound	R <sup>1</sup>	R <sup>2</sup>	R <sup>3</sup>	R <sup>4</sup>	R <sup>5</sup>	R <sup>6</sup>	R <sup>7</sup>	R <sup>8</sup>	R <sup>10</sup>
163	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
164	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
165	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
166	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
167	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
168	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
169	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
170	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
171	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
172	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
173	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-H
174	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-H
175	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-H
176	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
177	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
178	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
179	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
180	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>

Compound	R <sup>1</sup>	R <sup>2</sup>	R <sup>3</sup>	R <sup>4</sup>	R <sup>5</sup>	R <sup>6</sup>	R <sup>7</sup>	R <sup>8</sup>	R <sup>9</sup>	R <sup>10</sup>
181	-OH	-CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
182	-OH	-CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
183	-OH	-CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
184	-OH	-CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
185	-OH	-CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
186	-OH	-CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
187	-OH	-CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
188	-OH	-CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
189	-OH	-CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
190	-OH	-CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
191	-OH	-CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
192	-OH	-CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
193	-OH	-CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
194	-OH	-CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
195	-OH	-CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
196	-OH	-CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
197	-OH	-CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
198	-OH	-CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>

Compound	R <sup>1</sup>	R <sup>2</sup>	R <sup>3</sup>	R <sup>4</sup>	R <sup>5</sup>	R <sup>6</sup>	R <sup>7</sup>	R <sup>8</sup>	R <sup>9</sup>	R <sup>10</sup>
199	-OH	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
200	-OH	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
201	-OH	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
202	-OH	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
203	-OH	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
204	-OH	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
205	-OH	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
206	-OH	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
207	-OH	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
208	-OH	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
209	-OH	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
210	-OH	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
211	-OH	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
212	-OH	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
213	-OH	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
214	-OH	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
215	-OH	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
216	-OH	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>

Compound	R <sup>1</sup>	R <sup>2</sup>	R <sup>3</sup>	R <sup>4</sup>	R <sup>5</sup>	R <sup>6</sup>	R <sup>7</sup>	R <sup>8</sup>	R <sup>9</sup>	R <sup>10</sup>
217	-OH	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-H	-CH <sub>3</sub>
218	-OH	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-H	-CH <sub>3</sub>
219	-OH	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
220	-OH	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
221	-OH	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
222	-OH	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>
223	-OH	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
224	-OH	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
225	-OH	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
226	-OH	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
227	-OH	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
228	-OH	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>
229	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
230	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
231	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
232	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
233	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
234	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>

Compound	R <sup>1</sup>	R <sup>2</sup>	R <sup>3</sup>	R <sup>4</sup>	R <sup>5</sup>	R <sup>6</sup>	R <sup>7</sup>	R <sup>8</sup>	R <sup>9</sup>	R <sup>10</sup>
235	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
236	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
237	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
238	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
239	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
240	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
241	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
242	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
243	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
244	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
245	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
246	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
247	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
248	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
249	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
250	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
251	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
252	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>

Compound	R <sup>1</sup>	R <sup>2</sup>	R <sup>3</sup>	R <sup>4</sup>	R <sup>5</sup>	R <sup>6</sup>	R <sup>7</sup>	R <sup>8</sup>	R <sup>9</sup>
253	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
254	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
255	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
256	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
257	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
258	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
259	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
260	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
261	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
262	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
263	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
264	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
265	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
266	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
267	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-H
268	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
269	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
270	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>

Compound	R <sup>1</sup>	R <sup>2</sup>	R <sup>3</sup>	R <sup>4</sup>	R <sup>5</sup>	R <sup>6</sup>	R <sup>7</sup>	R <sup>8</sup>	R <sup>9</sup>	R <sup>10</sup>
271	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
272	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
273	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
274	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>
275	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>
276	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
277	-CH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
278	-CH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
279	-CH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
280	-CH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
281	-CH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
282	-CH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
283	-CH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
284	-CH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-H	-CH <sub>3</sub>
285	-CH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
286	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
287	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
288	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>

Compound	R <sup>1</sup>	R <sup>2</sup>	R <sup>3</sup>	R <sup>4</sup>	R <sup>5</sup>	R <sup>6</sup>	R <sup>7</sup>	R <sup>8</sup>	R <sup>9</sup>	R <sup>10</sup>
289	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
290	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
291	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
292	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
293	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-H	-CH <sub>3</sub>
294	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-H	-CH <sub>3</sub>
295	-CH <sub>3</sub>	-C(O)H	-OH	-H	-H	-CH <sub>3</sub>	-H	-H	-H	-CH <sub>3</sub>
296	-CH <sub>3</sub>	-C(O)H	-OH	-H	-H	-CH <sub>3</sub>	-H	-H	-H	-CH <sub>3</sub>
297	-CH <sub>3</sub>	-C(O)H	-OH	-H	-H	-CH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
298	-CH <sub>3</sub>	-C(O)H	-OH	-H	-H	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
299	-CH <sub>3</sub>	-C(O)H	-OH	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
300	-CH <sub>3</sub>	-C(O)H	-OH	-H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
301	-CH <sub>3</sub>	-C(O)H	-OH	-H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
302	-CH <sub>3</sub>	-C(O)H	-OH	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
303	-CH <sub>3</sub>	-C(O)H	-OH	-H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
304	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-OH	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
305	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-OH	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>
306	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-OH	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-H	-CH <sub>3</sub>

Compound	R <sup>1</sup>	R <sup>2</sup>	R <sup>3</sup>	R <sup>4</sup>	R <sup>5</sup>	R <sup>6</sup>	R <sup>7</sup>	R <sup>8</sup>	R <sup>9</sup>	R <sup>10</sup>
307	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-OH	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
308	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-OH	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
309	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-OH	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
310	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-OH	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
311	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-OH	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
312	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-OH	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-H	-CH <sub>3</sub>
313	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-H	-CH <sub>3</sub>
314	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-H	-H	-H	-CH <sub>3</sub>
315	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-H	-H	-H	-CH <sub>3</sub>
316	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
317	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
318	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
319	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
320	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
321	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
322	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
323	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
324	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>

Compound	R <sup>1</sup>	R <sup>2</sup>	R <sup>3</sup>	R <sup>4</sup>	R <sup>5</sup>	R <sup>6</sup>	R <sup>7</sup>	R <sup>8</sup>	R <sup>9</sup>	R <sup>10</sup>
325	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
326	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
327	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
328	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
329	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
330	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
331	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
332	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
333	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
334	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
335	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
336	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
337	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
338	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
339	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
340	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
341	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
342	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>

Compound	R <sup>1</sup>	R <sup>2</sup>	R <sup>3</sup>	R <sup>4</sup>	R <sup>5</sup>	R <sup>6</sup>	R <sup>7</sup>	R <sup>8</sup>	R <sup>9</sup>	R <sup>10</sup>
343	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
344	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
345	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
346	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
347	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-H	-CH <sub>3</sub>
348	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-H	-CH <sub>3</sub>
349	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-H	-CH <sub>3</sub>
350	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-H	-CH <sub>3</sub>
351	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
352	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
353	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>
354	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
355	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
356	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>
357	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
358	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>
359	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
360	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>

Compound	R <sup>1</sup>	R <sup>2</sup>	R <sup>3</sup>	R <sup>4</sup>	R <sup>5</sup>	R <sup>6</sup>	R <sup>7</sup>	R <sup>8</sup>	R <sup>9</sup>	R <sup>10</sup>
361	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
362	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
363	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
364	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
365	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
366	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>
367	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
368	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
369	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
370	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
371	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>
372	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>
373	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
374	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
375	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>
376	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
377	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
378	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>

Compound	R <sup>1</sup>	R <sup>2</sup>	R <sup>3</sup>	R <sup>4</sup>	R <sup>5</sup>	R <sup>6</sup>	R <sup>7</sup>	R <sup>8</sup>	R <sup>9</sup>	R <sup>10</sup>
379	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
380	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
381	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
382	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>
383	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
384	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
385	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
386	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
387	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
388	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
389	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
390	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
391	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
392	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-H	-CH <sub>3</sub>
393	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-H	-CH <sub>3</sub>
394	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
395	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
396	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>

Compound	R <sup>1</sup>	R <sup>2</sup>	R <sup>3</sup>	R <sup>4</sup>	R <sup>5</sup>	R <sup>6</sup>	R <sup>7</sup>	R <sup>8</sup>	R <sup>9</sup>
397	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
398	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
399	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
400	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
401	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
402	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>
403	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>
404	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>
405	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>
406	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
407	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
408	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
409	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
410	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
411	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
412	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
413	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
414	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>

Compound	R <sup>1</sup>	R <sup>2</sup>	R <sup>3</sup>	R <sup>4</sup>	R <sup>5</sup>	R <sup>6</sup>	R <sup>7</sup>	R <sup>8</sup>	R <sup>9</sup>	R <sup>10</sup>
415	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
416	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
417	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
418	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
419	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
420	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
421	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
422	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
423	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
424	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
425	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
426	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
427	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
428	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
429	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
430	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
431	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
432	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>

Compound	R <sup>1</sup>	R <sup>2</sup>	R <sup>3</sup>	R <sup>4</sup>	R <sup>5</sup>	R <sup>6</sup>	R <sup>7</sup>	R <sup>8</sup>	R <sup>9</sup>	R <sup>10</sup>
433	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
434	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
435	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
436	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
437	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
438	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
439	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-H	-CH <sub>3</sub>
440	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-H	-CH <sub>3</sub>
441	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
442	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
443	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
444	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
445	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-H	-CH <sub>3</sub>
446	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
447	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
448	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
449	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
450	-OH	-C(O)H	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>

- 40 -

Compound	R <sup>1</sup>	R <sup>2</sup>	R <sup>3</sup>	R <sup>4</sup>	R <sup>5</sup>	R <sup>6</sup>	R <sup>7</sup>	R <sup>8</sup>	R <sup>9</sup>	R <sup>10</sup>
451	-OH	-C(O)H	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
452	-OH	-C(O)H	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
453	-OH	-C(O)H	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
454	-OH	-C(O)H	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
455	-OH	-C(O)H	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
456	-OH	-C(O)H	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
457	-OH	-C(O)H	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
458	-OH	-C(O)H	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
459	-OH	-C(O)H	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
460	-OH	-C(O)H	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
461	-OH	-C(O)H	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
462	-OH	-C(O)H	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
463	-OH	-C(O)H	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
464	-OH	-C(O)H	-CH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
465	-OH	-C(O)H	-CH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
466	-OH	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
467	-OH	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
468	-OH	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>

Compound	R <sup>1</sup>	R <sup>2</sup>	R <sup>3</sup>	R <sup>4</sup>	R <sup>5</sup>	R <sup>6</sup>	R <sup>7</sup>	R <sup>8</sup>	R <sup>9</sup>
469	-OH	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
470	-OH	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
471	-OH	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
472	-OH	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
473	-OH	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
474	-OH	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
475	-OH	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
476	-OH	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
477	-OH	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
478	-OH	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
479	-OH	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
480	-OH	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
481	-OH	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
482	-OH	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
483	-OH	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
484	-OH	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
485	-OH	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
486	-OH	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>

Compound	R <sup>1</sup>	R <sup>2</sup>	R <sup>3</sup>	R <sup>4</sup>	R <sup>5</sup>	R <sup>6</sup>	R <sup>7</sup>	R <sup>8</sup>	R <sup>9</sup>	R <sup>10</sup>
487	-OH	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
488	-OH	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
489	-OH	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>
490	-OH	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
491	-OH	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
492	-OH	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
493	-OH	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
494	-OH	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>
495	-OH	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
496	-OH	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>
497	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
498	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
499	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
500	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
501	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
502	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
503	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
504	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>

Compound	R <sup>1</sup>	R <sup>2</sup>	R <sup>3</sup>	R <sup>4</sup>	R <sup>5</sup>	R <sup>6</sup>	R <sup>7</sup>	R <sup>8</sup>	R <sup>9</sup>	R <sup>10</sup>
505	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
506	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
507	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
508	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
509	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
510	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
511	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
512	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
513	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
514	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
515	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
516	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
517	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
518	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
519	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
520	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
521	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
522	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>

Compound	R <sup>1</sup>	R <sup>2</sup>	R <sup>3</sup>	R <sup>4</sup>	R <sup>5</sup>	R <sup>6</sup>	R <sup>7</sup>	R <sup>8</sup>	R <sup>9</sup>	R <sup>10</sup>
523	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
524	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
525	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
526	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
527	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
528	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
529	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
530	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
531	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
532	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
533	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
534	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-H	-CH <sub>3</sub>
535	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-H	-CH <sub>3</sub>
536	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
537	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
538	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
539	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
540	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>

Compound	R <sup>1</sup>	R <sup>2</sup>	R <sup>3</sup>	R <sup>4</sup>	R <sup>5</sup>	R <sup>6</sup>	R <sup>7</sup>	R <sup>8</sup>	R <sup>9</sup>	R <sup>10</sup>
541	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>
542	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>
543	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-H	-CH <sub>3</sub>
544	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-(CH <sub>2</sub> ) <sub>2</sub> -	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
545	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-(CH <sub>2</sub> ) <sub>2</sub> -	-CH <sub>3</sub>	-CH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
546	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-(CH <sub>2</sub> ) <sub>2</sub> -	-CH <sub>3</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
547	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-(CH <sub>2</sub> ) <sub>2</sub> -	-CH <sub>3</sub>	-H	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
548	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-(CH <sub>2</sub> ) <sub>2</sub> -	-CH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
549	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-(CH <sub>2</sub> ) <sub>2</sub> -	-CH <sub>3</sub>	-H	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
550	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-(CH <sub>2</sub> ) <sub>2</sub> -	-CH <sub>3</sub> CH <sub>3</sub>	-H	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
551	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-(CH <sub>2</sub> ) <sub>2</sub> -	-CH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
552	-OH	-CH <sub>3</sub>	-C(O)H	-(CH <sub>2</sub> ) <sub>2</sub> -	-CH <sub>3</sub>	-H	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
553	-OH	-CH <sub>3</sub>	-C(O)H	-(CH <sub>2</sub> ) <sub>2</sub> -	-CH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
554	-OH	-CH <sub>3</sub>	-C(O)H	-(CH <sub>2</sub> ) <sub>2</sub> -	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
555	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-(CH <sub>2</sub> ) <sub>2</sub> -	-CH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
556	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-(CH <sub>2</sub> ) <sub>2</sub> -	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
557	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-(CH <sub>2</sub> ) <sub>2</sub> -	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
558	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>2</sub> -	-CH <sub>3</sub>	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>

Compound	R <sup>1</sup>	R <sup>2</sup>	R <sup>3</sup>	R <sup>4</sup>	R <sup>5</sup>	R <sup>6</sup>	R <sup>7</sup>	R <sup>8</sup>	R <sup>9</sup>	R <sup>10</sup>
559	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>2</sub> -	-CH <sub>3</sub>	-H	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
560	-C(CH <sub>3</sub> ) <sub>2</sub>	-C(O)H	-CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>2</sub> -	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
561	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>2</sub> -	-CH <sub>3</sub>	-H	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
562	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>2</sub> -	-CH <sub>3</sub>	-H	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
563	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>2</sub> -	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
564	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>2</sub> -	-CH <sub>3</sub>	-H	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
565	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>2</sub> -	-CH <sub>3</sub>	-H	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
566	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>2</sub> -	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
567	-OH	-C(O)H	-CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>2</sub> -	-CH <sub>3</sub>	-H	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
568	-OH	-C(O)H	-CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>2</sub> -	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
569	-OH	-C(O)H	-CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>2</sub> -	-CH <sub>3</sub>	-H	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
570	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>2</sub> -	-CH <sub>3</sub>	-H	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
571	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>2</sub> -	-CH <sub>3</sub>	-H	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
572	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>2</sub> -	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
573	-OCH <sub>3</sub>	-C(O)H	-H	-H	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
574	-OCH <sub>3</sub>	-C(O)H	-H	-H	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
575	-OCH <sub>3</sub>	-C(O)H	-H	-H	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
576	-OCH <sub>3</sub>	-C(O)H	-H	-H	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>

Compound	R <sup>1</sup>	R <sup>2</sup>	R <sup>3</sup>	R <sup>4</sup>	R <sup>5</sup>	R <sup>6</sup>	R <sup>7</sup>	R <sup>8</sup>	R <sup>9</sup>	R <sup>10</sup>
577	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
578	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-H	-CH <sub>3</sub>
579	-OCH <sub>3</sub>	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
580	-OH	-CH <sub>3</sub>	-C(O)H	-H	-H	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
581	-OH	-CH <sub>3</sub>	-C(O)H	-H	-H	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
582	-OH	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-H	-CH <sub>3</sub>
583	-OH	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-H	-CH <sub>3</sub>
584	-OH	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-H	-CH <sub>3</sub>
585	-OH	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-H	-CH <sub>3</sub>
586	-OH	-CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
587	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-H	-CH <sub>3</sub>
588	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-H	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
589	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
590	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-H	-CH <sub>3</sub>
591	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
592	-OCH <sub>3</sub>	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
593	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-H	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>
594	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-H	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>	-CH <sub>3</sub>

Compound	R <sup>1</sup>	R <sup>2</sup>	R <sup>3</sup>	R <sup>4</sup>	R <sup>5</sup>	R <sup>6</sup>	R <sup>7</sup>	R <sup>8</sup>	R <sup>9</sup>	R <sup>10</sup>
595	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-H	-CH <sub>3</sub>
596	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
597	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
598	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-H	-CH <sub>3</sub>
599	-OH	-CH <sub>2</sub> CH <sub>3</sub>	-C(O)H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
600	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-H	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
601	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-H	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
602	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
603	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
604	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-H	-CH <sub>3</sub>
605	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
606	-OCH <sub>3</sub>	-OCH <sub>3</sub>	-C(O)H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
607	-C(O)H	-CH <sub>3</sub>	-H	-H	-H	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
608	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-H	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
609	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
610	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
611	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
612	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-H	-CH <sub>3</sub>

Compound	R <sup>1</sup>	R <sup>2</sup>	R <sup>3</sup>	R <sup>4</sup>	R <sup>5</sup>	R <sup>6</sup>	R <sup>7</sup>	R <sup>8</sup>	R <sup>9</sup>	R <sup>10</sup>
613	-OCH <sub>3</sub>	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
614	-OH	-C(O)H	-CH <sub>3</sub>	-H	-H	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
615	-OH	-C(O)H	-CH <sub>3</sub>	-H	-H	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
616	-OH	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
617	-OH	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-H	-CH <sub>3</sub>
618	-OH	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
619	-OH	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
620	-OH	-C(O)H	-CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-H	-CH <sub>3</sub>
621	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
622	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
623	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-H	-CH <sub>3</sub>
624	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-H	-CH <sub>3</sub>
625	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
626	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
627	-OCH <sub>3</sub>	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
628	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
629	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-H	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
630	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-H	-CH <sub>3</sub>

Compound	R <sup>1</sup>	R <sup>2</sup>	R <sup>3</sup>	R <sup>4</sup>	R <sup>5</sup>	R <sup>6</sup>	R <sup>7</sup>	R <sup>8</sup>	R <sup>9</sup>	R <sup>10</sup>
631	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
632	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
633	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-H	-CH <sub>3</sub>
634	-OH	-C(O)H	-CH <sub>2</sub> CH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-H	-CH <sub>3</sub>
635	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-H	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
636	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-H	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>
637	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-H	-CH <sub>3</sub>
638	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
639	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>3</sub>
640	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-H	-CH <sub>3</sub>
641	-OCH <sub>3</sub>	-C(O)H	-OCH <sub>3</sub>	-H	-CH <sub>2</sub> CH <sub>3</sub>	-(CH <sub>2</sub> ) <sub>3</sub> -	-H	-H	-CH <sub>3</sub>	-CH <sub>3</sub>

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The novel alkyl tetralin aldehyde compounds of the present invention, with their musk aroma properties, have high utility in the fragrance industry. These compounds can be employed alone, in combination with one another, and/or

5 in combination with one or more ingredients to provide excellent musk fragrance compositions. The compounds of the invention are particularly useful in rounding off compositions, and blend particularly well with aldehydes of various fragrance types.

10 For example, the compounds of Formula [I] may be used as olfactory components in anionic, cationic, nonionic and zwitterionic detergents, soaps, fabric softener compositions, fabric softener articles for use in clothes dryers, space odorants and deodorants, perfumes, colognes,

15 toilet water, toiletries, bath preparations, deodorants, cosmetics, hand lotions, sunscreens, powders, as well as in other ways. The amount of the subject compounds to be used in modifying the olfactory or fragrance properties of a composition (that is, modifying, augmenting, enhancing, or

20 improving the aroma of such compositions), will vary depending upon the particular use intended, as will be readily apparent to those skilled in the art. Although they may be present in major or minor amounts, preferably,

25 because of the strength of their odor, the compounds of the invention are generally employed as a minor ingredient, that is, in an amount of about 0.1 percent by weight of the fragrance composition up to about 50 percent by weight of the fragrance composition, preferably about 0.1 percent by weight up to about 30 percent by weight of the fragrance

30 composition, and most preferably about 0.1 percent by weight up to about 5.0 percent by weight of the fragrance composition. Within these basic parameters, the olfactorily effective amount (that is, the amount of the compounds of Formula [I] effective to modify, augment, enhance or improve

35 the aroma properties of a composition) will be well within the ambit of one skilled in the art, once armed with the present disclosures.

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The fragrance compositions of the invention may, if desired, contain a carrier or vehicle (as used herein, the term "carrier" shall be considered synonymous with the term "vehicle"). Such carriers include liquids such as a 5 non-toxic alcohol, a non-toxic glycol, or the like. An example of a non-toxic alcohol is ethyl alcohol. An example of a non-toxic glycol is 1,2-propylene glycol.

Alternatively, the carrier can be an absorbent solid such as a gum, e.g., gum arabic, xantham gum or guar gum, or 10 components for encapsulating a composition such as gelatin, by means of coacervation or such as a urea formaldehyde polymer whereby a polymeric shell is formed around a liquid perfume oil center. The amount of the vehicle or carrier will vary depending upon the particular vehicle or carrier 15 employed and use intended, as will be readily apparent to those skilled in the art. However, the vehicle or carrier can generally be employed in an amount of about 5 percent by weight up to about 95 percent by weight of the fragrance composition.

20 The fragrance composition may alternatively or additionally contain other perfumery materials. Typical additional perfumery materials which may form part of compositions of the invention include: natural essential oils such as lemon oil, mandarin oil, clove leaf oil, 25 petitgrain oil, cedar wood oil, patchouli oil, lavandin oil, neroli oil, ylang oil, rose absolute or jasmine absolute; natural resins such as labdanum resin or olibanum resin; single perfumery chemicals which may be isolated from natural sources or manufactures synthetically, as for 30 example, alcohols such as geraniol, nerol, citronellol, linalol, tetrahydrogeraniol, beta-phenylethyl alcohol, methyl phenyl carbinol, dimethyl benzyl carbinol, menthol or cedrol; acetates and other esters derived from such alcohols; aldehydes such as citral, citronellal, 35 hydroxycitronellal, lauric aldehyde, undecylenic aldehyde, cinnamaldehyde, amyl cinnamic aldehyde, vanillin or heliotropin; acetals derived from such aldehydes; ketones

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such as methyl hexyl ketone, the ionones and the methylionones; phenolic compounds such as eugenol and isoeugenol; other synthetic musks such as musk xylene, musk ketone, hexamethylisochroman, 5-acetyl-

5 isopropyltetramethylindane, 6-acetyl-hexamethyltetralin (TETRALIDE®, a registered trademark of Bush Boake Allen Limited), 5-acetyl-hexamethylindane, and ethylene brassylate; and other materials commonly employed in the art of perfumery. Typically at least five, and usually at least 10 ten, of such materials will be present as components of the active ingredient. The amount of the additional perfumery material will vary depending upon the particular perfumery material employed and use intended, as will be apparent to those skilled in the art.

15 Fragrance compositions and preparatory techniques are well known in the art, and are disclosed, for example, in "Soap, Perfumery and Cosmetics", by W.A. Poucher, 7th edition, published by Chapman & Hall (London) (1959); "Perfume and Flavour Chemicals", by S. Arctander, published 20 by the author (Montclair) (1959); and "Perfume and Flavour Materials of Natural Origin", also by S. Arctander, self-published (Elizabeth, NJ) (1960), the disclosures of each of which are incorporated herein by reference, in their entirety.

25 This invention is further described in the following Examples 1-4, which illustrate methods of preparation for compounds of the invention. Examples 1-4 are prophetic examples. A summary of these examples is set forth below. These examples are intended to be illustrative 30 only, and are not to be construed as limiting the scope of the appended claims.

Example 1 describes the preparation of 6-formyl-1,1,2,4,4,7-hexamethyl-5-methoxy-1,2,3,4-tetrahydro-naphthalene, a compound of Formula I wherein R<sup>1</sup> is -OCH<sub>3</sub>, R<sup>2</sup> is -C(O)H, R<sup>3</sup> is -CH<sub>3</sub>, R<sup>4</sup> is -H, R<sup>5</sup> is -CH<sub>3</sub>, R<sup>6</sup> is -CH<sub>3</sub>, R<sup>7</sup> is -CH<sub>3</sub>, R<sup>8</sup> is -H, R<sup>9</sup> is -CH<sub>3</sub> and R<sup>10</sup> is -CH<sub>3</sub>.

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Example 2 describes the preparation of 6-formyl-1,1,2,4,4,5-hexamethyl-7-methoxy-1,2,3,4-tetrahydronaphthalene, a compound of Formula I wherein R<sup>1</sup> is -CH<sub>3</sub>, R<sup>2</sup> is -C(O)H, R<sup>3</sup> is -OCH<sub>3</sub>, R<sup>4</sup> is -H, R<sup>5</sup> is -CH<sub>3</sub>, R<sup>6</sup> is -CH<sub>3</sub>, R<sup>7</sup> is -CH<sub>3</sub>, R<sup>8</sup> is -H, R<sup>9</sup> is -CH<sub>3</sub> and R<sup>10</sup> is -CH<sub>3</sub>.

Example 3 describes the preparation of 6-formyl-1,1,2,4,4-pentamethyl-5,7-dimethoxy-1,2,3,4-tetrahydronaphthalene, a compound of Formula I wherein R<sup>1</sup> is -OCH<sub>3</sub>, R<sup>2</sup> is -C(O)H, R<sup>3</sup> is -OCH<sub>3</sub>, R<sup>4</sup> is -H, R<sup>5</sup> is -CH<sub>3</sub>, R<sup>6</sup> is -CH<sub>3</sub>, R<sup>7</sup> is -CH<sub>3</sub>, R<sup>8</sup> is -H, R<sup>9</sup> is -CH<sub>3</sub> and R<sup>10</sup> is -CH<sub>3</sub>.

Example 4 describes the preparation of 7-formyl-1,1,2,4,4-pentamethyl-5-methoxy-1,2,3,4-tetrahydronaphthalene, a compound of Formula I wherein R<sup>1</sup> is -OCH<sub>3</sub>, R<sup>2</sup> is -H, R<sup>3</sup> is -C(O)H, R<sup>4</sup> is -H, R<sup>5</sup> is -CH<sub>3</sub>, R<sup>6</sup> is -CH<sub>3</sub>, R<sup>7</sup> is -CH<sub>3</sub>, R<sup>8</sup> is -H, R<sup>9</sup> is -CH<sub>3</sub> and R<sup>10</sup> is -CH<sub>3</sub>.

#### Example 1

##### Preparation of 6-Formyl-1,1,2,4,4,7-Hexamethyl-5-Methoxy-1,2,3,4-Tetrahydronaphthalene

Using a Perrier modification, Perrier, *Chem. Ber.*, Vol. 33, pp. 819 et seq. (1900), and Perrier, *Bull. Soc. Chim. France*, pp. 859 et seq. (1904), *m*-cresol methyl ether (122.0 g) is reacted with acetyl chloride (72.0 g), methylene chloride (500 ml), and aluminum chloride (145.0 g) to provide a mixture of 2-methoxy-4-methyl-acetophenone and 4-methoxy-2-methyl-acetophenone. After standard quenching, separation, drying and solvent evaporation, the mixture is distilled on a spinning band distillation column under vacuum to separate the components.

Methylmagnesium bromide (3.0 M, 100 ml) (which may be obtained from Aldrich Chemical Company, Inc., Milwaukee, WI) in ether is added at room temperature to a 250 ml four-necked round bottom flask equipped with an air stirrer, septum, Claisen adapter (thermocouple and dry ice condenser attached) and nitrogen inlet tube. To this is then slowly added 2-methoxy-4-methyl-acetophenone (22.53 g). After about 2 hours, an aliquot of additional Grignard (20 ml) is added. The solution is then heated at 60°C for about one hour, and quenched with aqueous NH<sub>4</sub>Cl. The aqueous layer is

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then washed several times with methyl tert-butyl ether and rotoevaporated to yield a crude product mixture containing 1-[2'-methoxy-4'-methylphenyl]-1-methylethanol. The product mixture is then fractionated under reduced pressure to  
5 further purify the 1-[2'-methoxy-4'-methylphenyl]-1-methylethanol.

Next, 1-[2'-methoxy-4'-methylphenyl]-1-methylethanol is converted to 1,1,2,4,4,7-hexamethyl-5-methoxy-1,2,3,4-tetrahydronaphthalene by following  
10 procedures similar to those described in European Patent Application Publication No. 0,393,742. Specifically, to a stirred solution of 10 ml TiCl<sub>4</sub> in 120 ml dichloromethane (cooled to -5°C under nitrogen), is added a mixture of 18.0 g of 1-[2'-methoxy-4'-methylphenyl]-1-methylethanol and 16.8  
15 g 2,3-dimethylbutene-1 over a two hour period. The reaction mixture is stirred for a further 30 mins at -5°C. Thereafter, it is poured into a mixture of 200 ml of water and 100 ml of concentrated hydrochloric acid and stirred for 15 mins. The organic phase is separated and the aqueous  
20 phase washed twice with 50 ml dichloromethane. The combined organic phase is washed twice with 100 ml 10% hydrochloric acid solution, once with 100 ml water, twice with 100 ml 5% sodium carbonate solution, and finally once again with water, to yield as a crude product, 1,1,2,4,4,7-hexamethyl-  
25 5-methoxy-1,2,3,4-tetrahydro-naphthalene. After removal of the solvent, the crude product may be further purified by fractional distillation under reduced pressure.

To convert 1,1,2,4,4,7-hexamethyl-5-methoxy-1,2,3,4-tetrahydronaphthalene to its corresponding 6-carboxaldehyde, a 250 ml flask is charged with 130 ml dichloromethane and 24.51 g TiCl<sub>4</sub>. The solution is cooled to 2°C and 14.9 g of 1,1,2,4,4,7-hexamethyl-5-methoxy-1,2,3,4-tetrahydronaphthalene and 20 ml dichloromethane are added with stirring. Then α,α-dichloromethyl methyl ether (13.37  
30 g) is added over a period of 1.2 hours. After completion of addition, the solution is allowed to warm to room temperature. After a further half hour, the solution is

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quenched with water at a temperature of  $\leq 8^{\circ}\text{C}$ . The solution is distilled to remove residual starting material to yield a crude product containing the 6-carboxaldehyde, 6-formyl-1,1,2,4,4,7-hexamethyl-5-methoxy-1,2,3,4-

5 tetrahydronaphthalene. The crude product may then be further purified using further standard fractional distillation techniques.

Example 2

10 Preparation of 6-Formyl-1,1,2,4,4,5-Hexamethyl-7-Methoxy-1,2,3,4-Tetrahydronaphthalene

Using a Perrier modification, Perrier, *Chem. Ber.*, Vol. 33, pp. 819 et seq. (1900), and Perrier, *Bull. Soc. Chim. France*, pp. 859 et seq. (1904), *m*-cresol methyl ether (122.0 g) is reacted with acetyl chloride (72.0 g), 15 methylene chloride (500 ml), and aluminum chloride (145.0 g) to provide a mixture of 2-methoxy-4-methyl-acetophenone and 4-methoxy-2-methyl-acetophenone. After standard quenching, separation, drying, and solvent evaporation, the mixture is distilled on a spinning band distillation column under 20 vacuum to separate the components.

Methylmagnesium bromide (3.0 M, 100 ml) (which may be obtained from Aldrich Chemical Company, Inc., Milwaukee, WI) in ether is added at room temperature to a 250 ml four-necked round bottom flask equipped with an air stirrer, 25 septum, Claisen adapter (thermocouple and dry ice condenser attached) and nitrogen inlet tube. To this is then slowly added 2-methyl-4-methoxy-acetophenone (22.53 g). After about 2 hours, an aliquot of additional Grignard (20 ml) is added. The solution is then heated at  $60^{\circ}\text{C}$  for about one 30 hour, and quenched with aqueous  $\text{NH}_4\text{Cl}$ . The aqueous layer is then washed several times with methyl *tert*-butyl ether and rotoevaporated to yield a crude product mixture containing 1-[4'-methoxy-2'-methylphenyl]-1-methylethanol. The product mixture is then fractionated under reduced pressure to 35 further purify the 1-[4'-methoxy-2'-methylphenyl]-1-methyl-ethanol.

Next, 1-[4'-methoxy-2'-methylphenyl]-1-methylethanol is converted to 1,1,2,4,4,5-hexamethyl-7-

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methoxy-1,2,3,4-tetrahydronaphthalene by following procedures similar to those described in European Patent Application Publication No. 0,393,742. Specifically, to a stirred solution of 10 ml  $TiCl_4$  in 120 ml dichloro-methane (cooled to  $-5^{\circ}C$  under nitrogen), is added a mixture of 18.0 g of 1-[4'-methoxy-2'-methylphenyl]-1-methylethanol and 16.8 g 2,3-dimethylbutene-1 over a two hour period. The reaction mixture is stirred for a further 30 mins at  $-5^{\circ}C$ . Thereafter, it is poured into a mixture of 200 ml of water and 100 ml of concentrated hydrochloric acid and stirred for 15 mins. The organic phase is separated and the aqueous phase washed twice with 50 ml dichloromethane. The combined organic phase is washed twice with 100 ml 10% hydrochloric acid solution, once with 100 ml water, twice with 100 ml 5% sodium carbonate solution, and finally once again with water, to yield as a crude product, 1,1,2,4,4,5-hexamethyl-7-methoxy-1,2,3,4-tetrahydronaphthalene. After removal of the solvent, the crude product is further purified by fractional distillation under reduced pressure.

To convert 1,1,2,4,4,5-hexamethyl-7-methoxy-1,2,3,4-tetrahydronaphthalene to its corresponding 6-carboxaldehyde, a 250 ml flask is charged with 130 ml dichloromethane and 24.51 g  $TiCl_4$ . The solution is cooled to  $2^{\circ}C$  and 14.9 g of 1,1,2,4,4,5-hexamethyl-7-methoxy-1,2,3,4-tetrahydronaphthalene and 20 ml dichloromethane are added with stirring. Then  $\alpha,\alpha$ -dichloromethyl methyl ether (13.37 g) is added over a period of 1.2 hours. After completion of addition, the solution is allowed to warm to room temperature. After a further half hour, the solution is quenched with water at a temperature of  $\leq 8^{\circ}C$ . The solution is distilled to remove residual starting material to yield a crude product containing the 6-carboxaldehyde, 6-formyl-1,1,2,4,4,5-hexamethyl-7-methoxy-1,2,3,4-tetrahydronaphthalene. The crude product may then be further purified using further standard fractional distillation techniques.

Example 3

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Preparation of 6-Formyl-1,1,2,4,4-Pentamethyl-  
5,7-Dimethoxy-1,2,3,4-Tetrahydronaphthalene

Using a Perrier modification, Perrier, *Chem. Ber.*, Vol. 33, pp. 819 et seq. (1900), and Perrier, *Bull. Soc.*

5 *Chim. France*, pp. 859 et seq. (1904), 1,3-dimethoxybenzene (138.0 g) (which may be obtained from Aldrich Chemical Company, Inc., Milwaukee, WI) is reacted with acetyl chloride (72.0 g), methylene chloride (500 ml), and aluminum chloride (145.0 g) to provide 2',4'-dimethoxy-acetophenone,  
10 which may then be purified using standard vacuum fractional distillation.

Methylmagnesium bromide (3.0 M, 100 ml) (which may be obtained from Aldrich Chemical Company, Inc., Milwaukee, WI) in ether is added at room temperature to a 250 ml four-necked round bottom flask equipped with an air stirrer, septum, Claisen adapter (thermocouple and dry ice condenser attached) and nitrogen inlet tube. To this is then slowly added 2',4'-dimethoxy-acetophenone (24.73 g). After about 2 hours, an aliquot of additional Grignard (20 ml) is added.  
15  
20 The solution is then heated at 60°C for about one hour, and quenched with aqueous NH<sub>4</sub>Cl. The aqueous layer is then washed several times with methyl tert-butyl ether and rotoevaporated to yield a crude product mixture containing 1-[2',4'-dimethoxyphenyl]-1-methylethanol. The product  
25 mixture is then fractionated under reduced pressure to further purify the 1-[2',4'-dimethoxyphenyl]-1-methylethanol.

Next, 1-[2',4'-dimethoxyphenyl]-1-methylethanol is converted to 1,1,2,4,4-pentamethyl-5,7-dimethoxy-1,2,3,4-tetrahydronaphthalene by following procedures similar to those described in European Patent Application Publication No. 0,393,742. Specifically, to a stirred solution of 10 ml TiCl<sub>4</sub> in 120 ml dichloromethane (cooled to -5°C under nitrogen), is added a mixture of 19.61 g of 1-[2',4'-dimethoxyphenyl]-1-methylethanol and 16.8 g 2,3-dimethylbutene-1 over a two hour period. The reaction mixture is stirred for a further 30 mins at -5°C. Thereafter, it is poured into a mixture of 200 ml of water

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and 100 ml of concentrated hydrochloric acid and stirred for 15 mins. The organic phase is separated and the aqueous phase washed twice with 50 ml dichloromethane. The combined organic phase is washed twice with 100 ml 10% hydrochloric acid solution, once with 100 ml water, twice with 100 ml 5% sodium carbonate solution, and finally once again with water, to yield as a crude product, 1,1,2,4,4-pentamethyl-5,7-dimethoxy-1,2,3,4-tetrahydronaphthalene. After removal of the solvent, the crude product is further purified by fractional distillation under reduced pressure.

To convert 1,1,2,4,4-pentamethyl-5,7-dimethoxy-1,2,3,4-tetrahydronaphthalene to its corresponding 6-carboxaldehyde, a 250 ml flask is charged with 130 ml dichloromethane and 24.51 g TiCl<sub>4</sub>. The solution is cooled to 2°C and 15.87 g of 1,1,2,4,4-pentamethyl-5,7-dimethoxy-1,2,3,4-tetrahydronaphthalene and 20 ml dichloromethane are added with stirring. Then α,α-dichloro methyl methyl ether (13.37 g) is added over a period of 1.2 hours. After completion of addition, the solution is allowed to warm to room temperature. After a further half hour, the solution is quenched with water at a temperature of ≤ 8°C. The solution is distilled to remove residual starting material to yield a crude product containing the 6-carboxaldehyde, 6-formyl-1,1,2,4,4-pentamethyl-5,7-dimethoxy-1,2,3,4-tetrahydro-naphthalene. The crude product may then be further purified using further standard fractional distillation techniques.

Example 4

Preparation of 7-Formyl-1,1,2,4,4-Pentamethyl-5-Methoxy-1,2,3,4-Tetrahydronaphthalene

Using a Perrier modification, Perrier, *Chem. Ber.*, Vol. 33, pp. 819 et seq. (1900), and Perrier, *Bull. Soc. Chim. France*, pp. 859 et seq. (1904), m-cresol methyl ether (122.0 g) is reacted with acetyl chloride (72.0 g), methylene chloride (500 ml), and aluminum chloride (145.0 g) to provide a mixture of 2-methoxy-4-methyl-acetophenone and 4-methoxy-2-methyl-acetophenone. After standard quenching, separation, drying and solvent evaporation, the mixture is

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distilled on a spinning band distillation column under vacuum to separate the components.

Methylmagnesium bromide (3.0 M, 100 ml) (which may be obtained from Aldrich Chemical Company, Inc., Milwaukee, WI) in ether is added at room temperature to a 250 ml four-necked round bottom flask equipped with an air stirrer, septum, Claisen adapter (thermocouple and dry ice condenser attached) and nitrogen inlet tube. To this is then slowly added 2-methoxy-4-methyl-acetophenone (22.53 g). After about 2 hours, an aliquot of additional Grignard (20 ml) is added. The solution is then heated at 60°C for about one hour, and quenched with aqueous NH<sub>4</sub>Cl. The aqueous layer is then washed several times with methyl tert-butyl ether and rotoevaporated to yield a crude product mixture containing 1-[2'-methoxy-4'-methylphenyl]-1-methylethanol. The product mixture is then fractionated under reduced pressure to further purify the 1-[2'-methoxy-4'-methylphenyl]-1-methylethanol.

Next, 1-[2'-methoxy-4'-methylphenyl]-1-methylethanol is converted to 1,1,2,4,4,7-hexamethyl-5-methoxy-1,2,3,4-tetrahydronaphthalene by following procedures similar to those described in European Patent Application Publication No. 0,393,742. Specifically, to a stirred solution of 10 ml TiCl<sub>4</sub> in 120 ml dichloro-methane (cooled to -5°C under nitrogen), is added a mixture of 18.0 g of 1-[2'-methoxy-4'-methylphenyl]-1-methylethanol and 16.8 g 2,3-dimethylbut-1-ene over a two hour period. The reaction mixture is stirred for a further 30 mins at -5°C. Thereafter, it is poured into a mixture of 200 ml of water and 100 ml of concentrated hydrochloric acid and stirred for 15 mins. The organic phase is separated and the aqueous phase washed twice with 50 ml dichloromethane. The combined organic phase is washed twice with 100 ml 10% hydrochloric acid solution, once with 100 ml water, twice with 100 ml 5% sodium carbonate solution, and finally once again with water, to yield as a crude product, 1,1,2,4,4,7-hexamethyl-5-methoxy-1,2,3,4-tetrahydro-naphthalene. After removal of

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the solvent, the crude product is further purified by fractional distillation under reduced pressure.

To convert 1,1,2,4,4,7-hexamethyl-5-methoxy-1,2,3,4-tetrahydronaphthalene to 7-formyl-1,1,2,4,4-pentamethyl-5-methoxy-1,2,3,4-tetrahydronaphthalene, the oxidation procedures of Syper, *Tetrahedron Letters*, No. 37, pp. 4493-4498 (1966) are substantially followed.

Specifically, to a solution of 14.8 g of 1,1,2,4,4,7-hexamethyl-5-methoxy-1,2,3,4-tetrahydronaphthalene in 300 ml of 50% aqueous acetic acid is prepared. While stirring, to this is added dropwise a solution of 131.5 g ceric ammonium nitrate in the same acid (600 ml), at 100°C. The solution is then cooled to room temperature, diluted with water, extracted three times with ether, and dried with MgSO<sub>4</sub>, to yield the 7-carboxaldehyde, 7-formyl-1,1,2,4,4-pentamethyl-5-methoxy-1,2,3,4-tetrahydro-naphthalene.

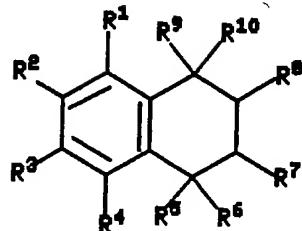
The disclosures of each patent and publication cited or described herein are hereby incorporated herein by reference, in their entirety.

Various modifications of the invention, in addition to those shown and described herein, will be readily apparent to those skilled in the art from the foregoing description. Such modifications are also intended to fall within the scope of the appended claims.

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What is claimed is:

1. A compound of the formula:



(I)

wherein

5           R¹ is -CH<sub>3</sub>, -CH<sub>2</sub>CH<sub>3</sub>, -OCH<sub>3</sub> or -OH,  
           R² and R³ are, independently, -H, -CH<sub>3</sub>, -CH<sub>2</sub>CH<sub>3</sub>,  
           -OCH<sub>3</sub>, -OH or -C(O)H,  
           R⁴ is -H,  
           R⁵ is -H, -CH<sub>3</sub> or -CH<sub>2</sub>CH<sub>3</sub>,  
 10          or R⁴ and R⁵, taken together, are -(CH<sub>2</sub>)<sub>2</sub>-,  
           R⁶ is -CH<sub>3</sub> or -CH<sub>2</sub>CH<sub>3</sub>,  
           R⁷ is -H, -CH<sub>3</sub> or -CH<sub>2</sub>CH<sub>3</sub>,  
           or R⁶ and R⁷, taken together, are -(CH<sub>2</sub>)<sub>3</sub>-,  
           R⁸ and R⁹ are, independently, -H, -CH<sub>3</sub> or -CH<sub>2</sub>CH<sub>3</sub>,

15          and

R<sup>10</sup> is -CH<sub>3</sub>,

provided that

(i)       one of R<sup>2</sup> and R<sup>3</sup> is -C(O)H, and one of R<sup>2</sup>  
 20        and R<sup>3</sup> is other than -C(O)H,  
      (ii)      no more than one of R<sup>5</sup> and R<sup>9</sup> is -H,  
      (iii)     no more than one of R<sup>5</sup>, R<sup>6</sup>, R<sup>7</sup>, R<sup>8</sup> and R<sup>9</sup>  
           is -CH<sub>2</sub>CH<sub>3</sub>,  
      (iv)     when R<sup>1</sup> is -OCH<sub>3</sub>, then R<sup>2</sup> and R<sup>3</sup> are other  
           than -H or -OH,  
 25       (v)      when R<sup>1</sup> is -OH, then R<sup>2</sup> and R<sup>3</sup> are other  
           than -OH or -OCH<sub>3</sub>,  
      (vi)     when R<sup>1</sup> is -CH<sub>3</sub> or -CH<sub>2</sub>CH<sub>3</sub>, then at least  
           one of R<sup>7</sup> and R<sup>8</sup> are H,  
      (vii)    when R<sup>4</sup> and R<sup>5</sup>, taken together, are  
 30       -(CH<sub>2</sub>)<sub>2</sub>-, then R<sup>1</sup> is -OCH<sub>3</sub> or -OH, R<sup>7</sup> is -  
           H, and R<sup>8</sup> is -H,

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(viii) when  $R^6$  and  $R^7$ , taken together, are  $-(CH_2)_3-$ , then  $R^1$  is  $-OCH_3$  or  $-OH$ , and  $R^8$  is  $-H$ ,

5 (ix) when  $R^1$  is  $-CH_3$  or  $-CH_2CH_3$ , then one of  $R^2$  and  $R^3$  is  $-OCH_3$  or  $-OH$ ;  
and

10 (x) when  $R^1$  is  $-OCH_3$  or  $-OH$ ,  $R^3$  is  $-CH_3$  or  $-CH_2CH_3$ , and both  $R^7$  and  $R^8$  are  $-H$ , then at least one of  $R^5$ ,  $R^6$  and  $R^9$  is other than  $-CH_3$ .

2. A compound of Claim 1 wherein  $R^1$  is  $-CH_3$ ,  $-OH$  or  $-OCH_3$ .

3. A compound of Claim 1 wherein  $R^2$  is  $-C(O)H$ .

4. A compound of Claim 1 wherein  $R^3$  is  $-CH_3$  or  
15  $-CH_2CH_3$ .

5. A compound of Claim 1 wherein  $R^1$  is  $-OH$  or  $-OCH_3$ ,  $R^2$  is  $-C(O)H$ ,  $R^3$  is  $-CH_3$  or  $-CH_2CH_3$ ,  $R^4$  is  $-H$ ,  $R^5$  is  $-CH_3$ ,  $R^6$  is  $-CH_3$ ,  $R^7$  is  $-H$  or  $-CH_3$ ,  $R^8$  is  $-H$  or  $-CH_3$ ,  $R^9$  is  $-CH_3$ , and  $R^{10}$  is  $-CH_3$ .

20 6. A compound of Claim 1 wherein  $R^1$  is  $-OH$  or  $-OCH_3$ ,  $R^2$  is  $-C(O)H$ ,  $R^3$  is  $-CH_3$ ,  $R^4$  and  $R^5$ , taken together, are  $-(CH_2)_2-$ ,  $R^6$  is  $-CH_3$ ,  $R^7$  is  $-H$ ,  $R^8$  is  $-H$ ,  $R^9$  is  $-CH_3$ , and  $R^{10}$  is  $-CH_3$ .

25 7. A compound of Claim 1 wherein  $R^1$  is  $-OH$  or  $-OCH_3$ ,  $R^2$  is  $-C(O)H$ ,  $R^3$  is  $-CH_3$ ,  $R^4$  is  $-H$ ,  $R^5$  is  $-CH_3$ ,  $R^6$  and  $R^7$ , taken together, are  $-(CH_2)_3-$ ,  $R^8$  is  $-H$ ,  $R^9$  is  $-CH_3$ , and  $R^{10}$  is  $-CH_3$ .

30 8. A compound of Claim 1 wherein  $R^1$  is  $-OCH_3$ ,  $R^2$  is  $-C(O)H$ ,  $R^3$  is  $-CH_3$ ,  $R^4$  is  $-H$ ,  $R^5$  is  $-CH_3$ ,  $R^6$  is  $-CH_3$ ,  $R^7$  is  $-H$ ,  $R^8$  is  $-CH_3$ ,  $R^9$  is  $-CH_3$ , and  $R^{10}$  is  $-CH_3$ .

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9. A compound of Claim 1 wherein R<sup>1</sup> is -OCH<sub>3</sub>, R<sup>2</sup> is -C(O)H, R<sup>3</sup> is -OCH<sub>3</sub>, R<sup>4</sup> is -H, R<sup>5</sup> is -CH<sub>3</sub>, R<sup>6</sup> is -CH<sub>3</sub>, R<sup>7</sup> is -H, R<sup>8</sup> is -H, R<sup>9</sup> is -CH<sub>3</sub>, and R<sup>10</sup> is -CH<sub>3</sub>.

10. A compound of Claim 1 wherein R<sup>1</sup> is -OCH<sub>3</sub>, R<sup>2</sup> is -C(O)H, R<sup>3</sup> is -OCH<sub>3</sub>, R<sup>4</sup> is -H, R<sup>5</sup> is -CH<sub>3</sub>, R<sup>6</sup> is -CH<sub>3</sub>, R<sup>7</sup> is -CH<sub>3</sub>, R<sup>8</sup> is -H, R<sup>9</sup> is -CH<sub>3</sub> and R<sup>10</sup> is -CH<sub>3</sub>.

11. A compound of Claim 1 wherein R<sup>1</sup> is -OCH<sub>3</sub>, R<sup>2</sup> is -H, R<sup>3</sup> is -C(O)H, R<sup>4</sup> is -H, R<sup>5</sup> is -CH<sub>3</sub>, R<sup>6</sup> is -CH<sub>3</sub>, R<sup>7</sup> is -CH<sub>3</sub>, R<sup>8</sup> is -H, R<sup>9</sup> is -CH<sub>3</sub> and R<sup>10</sup> is -CH<sub>3</sub>.

10 12. A compound of Claim 1 wherein R<sup>1</sup> is -OCH<sub>3</sub>, R<sup>2</sup> is -C(O)H, R<sup>3</sup> is -CH<sub>3</sub>, R<sup>4</sup> is -H, R<sup>5</sup> is -CH<sub>3</sub>, R<sup>6</sup> is -CH<sub>3</sub>, R<sup>7</sup> is -CH<sub>3</sub>, R<sup>8</sup> is -H, R<sup>9</sup> is -CH<sub>3</sub>, and R<sup>10</sup> is -CH<sub>3</sub>.

13. A compound of Claim 1 wherein R<sup>1</sup> is -OCH<sub>3</sub>, R<sup>2</sup> is -C(O)H, R<sup>3</sup> is -CH<sub>2</sub>CH<sub>3</sub>, R<sup>4</sup> is -H, R<sup>5</sup> is -CH<sub>3</sub>, R<sup>6</sup> is -CH<sub>3</sub>, R<sup>7</sup> is -CH<sub>3</sub>, R<sup>8</sup> is -H, R<sup>9</sup> is -CH<sub>3</sub>, and R<sup>10</sup> is -CH<sub>3</sub>.

14. A compound of Claim 1 wherein R<sup>1</sup> is -OH, R<sup>2</sup> is -C(O)H, R<sup>3</sup> is -CH<sub>3</sub>, R<sup>4</sup> is -H, R<sup>5</sup> is -CH<sub>3</sub>, R<sup>6</sup> is -CH<sub>3</sub>, R<sup>7</sup> is -CH<sub>3</sub>, R<sup>8</sup> is -H, R<sup>9</sup> is -CH<sub>3</sub>, and R<sup>10</sup> is -CH<sub>3</sub>.

15 15. A compound of Claim 1 wherein R<sup>1</sup> is -OH, R<sup>2</sup> is -C(O)H, R<sup>3</sup> is -CH<sub>2</sub>CH<sub>3</sub>, R<sup>4</sup> is -H, R<sup>5</sup> is -CH<sub>3</sub>, R<sup>6</sup> is -CH<sub>3</sub>, R<sup>7</sup> is -CH<sub>3</sub>, R<sup>8</sup> is -H, R<sup>9</sup> is -CH<sub>3</sub>, and R<sup>10</sup> is -CH<sub>3</sub>.

16. A fragrance composition comprising a compound of Claim 1 in combination with at least one of a carrier and additional perfumery material.

25 17. A fragrance composition comprising a compound of Claim 9 in combination with at least one of a carrier and additional perfumery material.

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18. A fragrance composition comprising a compound of Claim 11 in combination with at least one of a carrier and additional perfumery material.

19. A fragrance composition comprising a compound 5 of Claim 13 in combination with at least one of a carrier and additional perfumery material.

20. A method of modifying the olfactory properties of a composition comprising adding thereto an olfactorily effective amount of a compound of Claim 1.

10 21. A method of modifying the olfactory properties of a composition comprising adding thereto an olfactorily effective amount of a compound of Claim 9.

15 22. A method of modifying the olfactory properties of a composition comprising adding thereto an olfactorily effective amount of a compound of Claim 11.

23. A method of modifying the olfactory properties of a composition comprising adding thereto an olfactorily effective amount of a compound of Claim 13.

24. A product produced by the method of Claim 20.

20 25. A product produced by the method of Claim 21.

26. A product produced by the method of Claim 22.

27. A product produced by the method of Claim 23.

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US94/13960

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(6) :C07C 49/215; A61K 7/46  
US CL :568/327,340; 512/17

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 568/327,340; 512/17

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US, A, 4,466,908 (SPRECKER ET AL) 21 AUGUST 1984, SEE ENTIRE DOCUMENT.	1-27
A	US, A, 3,442,640 (WOOD ET AL) 06 MAY 1969, SEE ENTIRE DOCUMENT.	1-27
A	US, A, 5,162,588 (FEHR ET AL) 10 NOVEMBER 1992, SEE ENTIRE DOCUMENT.	1-27

Further documents are listed in the continuation of Box C.  See patent family annex.

- \* Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "E" earlier document published on or after the international filing date "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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- "O" document referring to an oral disclosure, use, exhibition or other means "Z" document member of the same patent family
- "P" document published prior to the international filing date but later than the priority date claimed

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06 MARCH 1995

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